

# 350

## HYDRAULIC EXCAVATOR



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**Net Power – ISO 9249**  
**Operating Weight**  
**Maximum Digging Depth**

**308 kW (413 hp)**  
**46 000 kg (105,100 lb)**  
**8210 mm (26.11 ft)**



# 350

## HYDRAULIC EXCAVATOR

The Cat® 350 is at the top of its class for productivity. With low owning and operating costs and easy-to-use Cat technology, the excavator will help you get tons of work done on grade and on time.

Not all features available in all regions. Consult your Cat dealer for specific configurations available in your region.



### CLASS-LEADING PRODUCTIVITY

Dig, swing, and load tons of material with power and precision.

### EASY-TO-USE CAT TECHNOLOGY

Make your work simpler and more efficient.

### LOW OWNING AND OPERATING COSTS

Spend less money with industry-leading fuel efficiency and long life filters with extended service intervals.

# LATEST FEATURES



## Cab Monitor Improvements

1. Continuously improved user interface allows for intuitive navigation, minimizing performance interruption with the easy-to-use touchscreen menu.
2. Identify apps quickly with a grid list view, abbreviated app names, and categorized menu options.
3. A new notification center keeps important information visible to the operator, and displays messages without shrinking the camera view.
4. Color coded notifications set critical messages apart from the rest.
5. Use the in-monitor QR code to learn about machine technology and features through a full suite of “how-to” videos.

## Operator Coaching

1. Operator Coaching is an in-cab system that recognizes specific opportunities for operators to be more productive and prevent unnecessary machine wear and tear.
  2. After detecting inefficient or restricted actions, the system alerts the operator and provides insight into the inefficiency and steps to improve.
  3. Paired with a VisionLink® Productivity subscription, this information and other Operator Coaching insights can be viewed from anywhere.
- Standard integrated vehicle health management system alerts the operator with service guidance and parts needed to enhance uptime.
  - Cat Detect – People Detection helps protect the most valuable asset on any jobsite – people. The system uses smart cameras with depth sensors to provide the operator with visual and auditory alerts so he or she can take immediate action when a person is too close to the excavator.
  - Enhance visibility to make service work easier and safer with optional inspection lighting.

***Not all features are available in all regions. Please check with your local Cat dealer for specific offering availability in your area. Build Number: 06C***

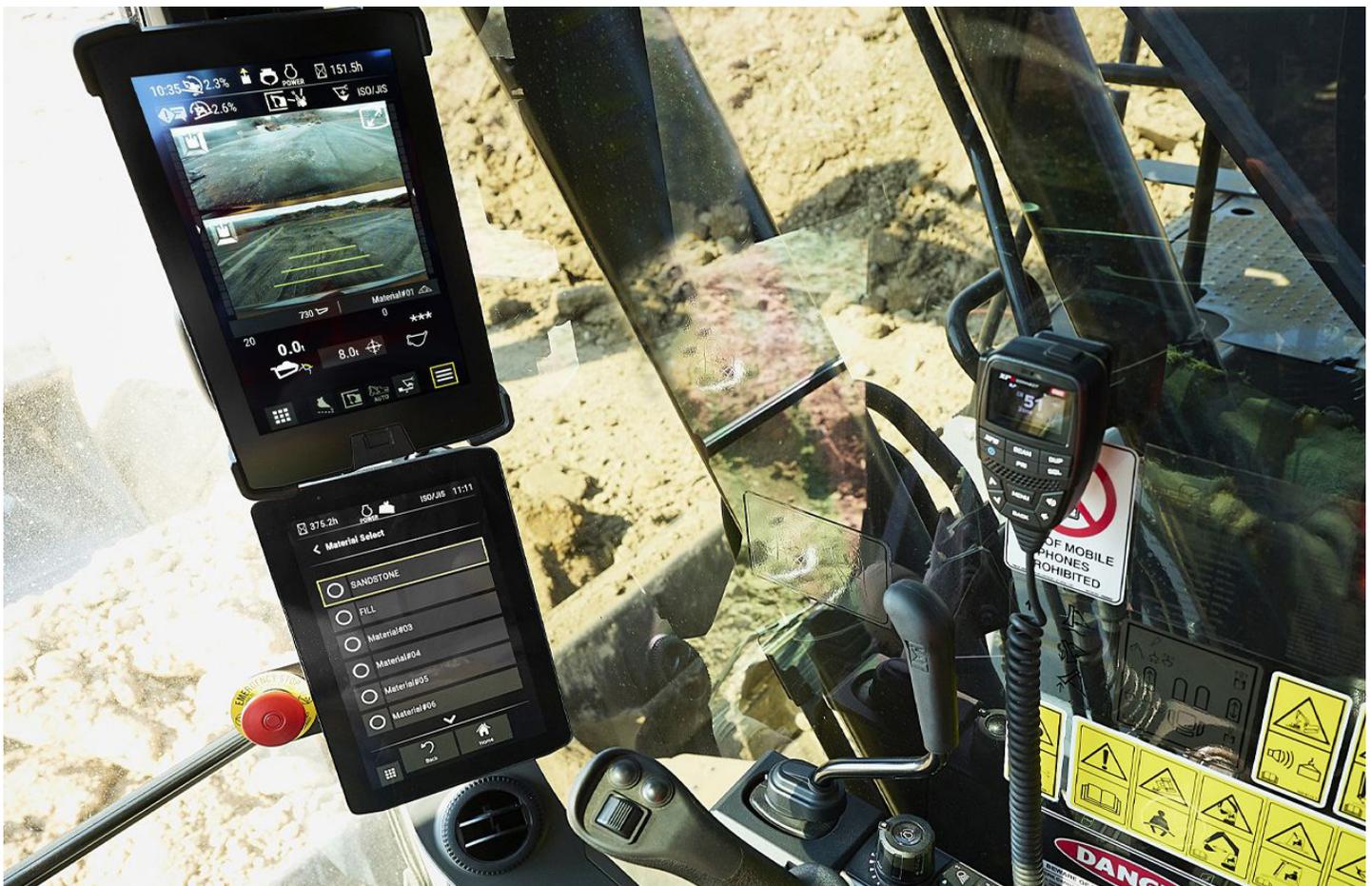
# BUILT FOR RUGGED CONDITIONS



- The reinforced swing bearing, along with stress-relieved boom and stick, enables the 350 to take on tough work over and over again.
- Work up to 4500 m (14,764 ft) above sea level.
- Standard high-ambient temperature capability is 52° C (125° F). Standard cold start capability is -18° C (0° F); -32° C (-25° F) cold start capability is an available option.
- Automatic hydraulic oil warmup gets you to work faster in cold temperatures and helps prolong the life of components.
- Three levels of filtration protect the engine from dirty diesel fuel.
- Grease sealed between track pins and bushings reduces travel noise and prevents debris from entering to increase undercarriage life.
- Standard built-in protection includes bottom, travel motor, and swivel guards.
- The sloped track frame prevents mud and debris accumulation, helping reduce risk of track damage.

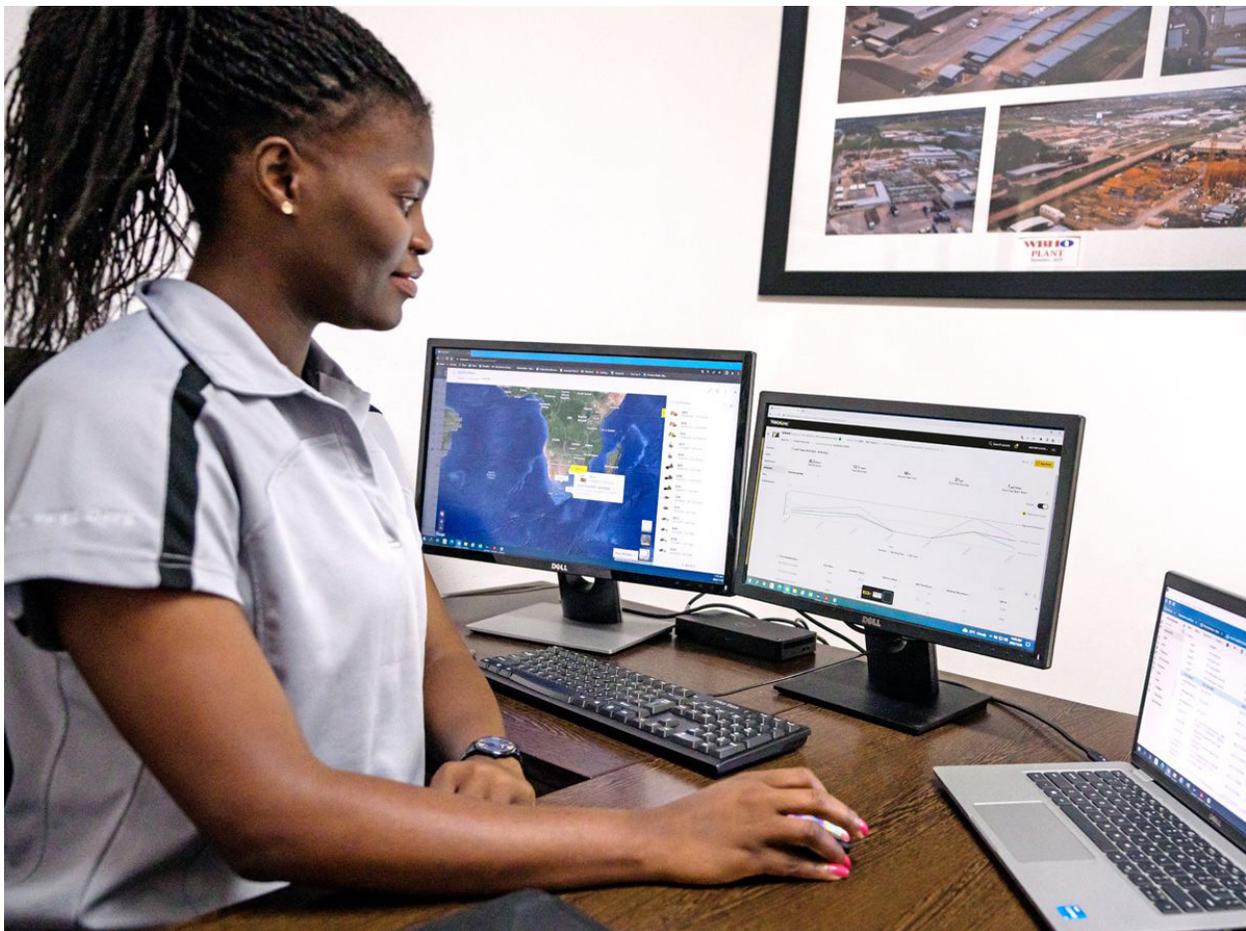
# EFFICIENCY THROUGH TECHNOLOGY

- Boost productivity up to 45% versus traditional grading with standard Cat Grade with 2D system – includes indicate-only and laser capability.
- Want a 3D system to improve your digging results? Caterpillar single antenna global navigation satellite system (GNSS) makes it easy by giving you visual and auditory guidance to grade. Plus, you can create and edit designs on the touchscreen monitor while you're on the job. If your application calls for a dual antenna system, it's easy to upgrade.
- Upgrade to our dual antenna GNSS for maximum grading efficiency. The system lets you create and edit designs on the touchscreen monitor while you're on the job, or you can have the plan design sent to the excavator to make your work easier. Plus, you get added benefits of avoidance zones, cut and fill mapping, lane guidance, and augmented reality along with advanced positioning capability.
- Standard Grade Assist helps you stay on grade – simply and effortlessly – with single-lever digging.
- Dig with guidance to depth, slope, and horizontal distance to grade. You can set up to four different depth and slope targets to help save time and money.
- Automatically stop excavator swing at operator-defined set points in truck loading and trenching applications with Swing Assist.
- Cat Payload helps you achieve precise load targets to improve your operating efficiency. Pick up a load of material – with a bucket and thumb combination or grapple and clamshell attachments – and get a real-time weight estimate without swinging.
- Combine Payload with VisionLink and remotely manage your production targets.
- Operator Coaching is an in-cab system that recognizes specific opportunities for operators to be more productive and prevent unnecessary machine wear and tear.



# TAKE THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

- VisionLink provides actionable data insights for all assets – regardless of fleet size or equipment manufacturer.\* Review equipment data from your desktop or mobile device to maximize uptime and optimize assets. Dashboards provide information such as hours, miles, location, idle time, and fuel utilization. Make informed decisions that lower costs, simplify maintenance, and improve safety and security on your jobsite.
  - VisionLink Productivity gathers and summarizes machine telematics and jobsite data from all your equipment – regardless of the manufacture.\* View actionable information such as idle time, fuel burn, location, payload, load counts, total cycles, and more to improve machine efficiency, productivity, and utilization. Access data anywhere via a mobile, tablet, or desktop device – on or off the jobsite.
  - Cat® Inspect is a mobile application that allows you to easily perform digital preventative maintenance (PM) checks, inspections, and daily walkarounds. Inspections can easily be integrated with other Cat data systems like VisionLink so you can keep a close eye on your fleet.
  - Remote Troubleshoot is a mobile application that allows your Cat dealer to perform diagnostic testing on your connected machine remotely to help ensure that issues are resolved quickly and with less downtime.
  - Remote Flash is a mobile application that allows you to update onboard software without a technician being present, allowing you to initiate software updates when convenient, increasing your overall operating efficiency.
  - The Cat PL161 attachment locator allows you to track attachments across all worksites, reduce the number of lost attachments, and plan for attachment maintenance and replacement. The work tool recognition feature automatically adjusts machine settings based on the selected tool.
- \* Data field availability can vary by equipment manufacturer.**



# WORK IN COMFORT



- Choose between Deluxe and Premium cabs – both with automatic climate control.
- Deluxe cab comes with heated seat to keep you warm.
- Premium cab comes with heated and ventilated seat for year-round comfort.
- Tilt-up console enables easy entry and exit.
- Stow your gear with plenty of in-cab storage beneath and behind the seat, overhead, and in the consoles.
- Use the standard radio's USB ports and Bluetooth® technology to connect to personal devices and make hands-free calls.

# HIGH PERFORMANCE, LOW FUEL CONSUMPTION

- Powerful digging force and strong swing torque enable the use of large buckets up to 3.2 m<sup>3</sup> (4.2 yd<sup>3</sup>) for class-leading productivity.
- Compared to the Cat 349-07, the 350 consumes up to 13 percent less fuel for lower operating costs and greater profit potential.
- Match the excavator to the job with three power modes – Smart, Power, and Eco. Smart mode automatically matches engine and hydraulic power to digging conditions, providing maximum power when needed and reducing power when it isn't to help save fuel. Power mode is maximum power all the time. Eco mode reduces engine speed and keeps it constant to reduce fuel consumption.
- Valve priority puts hydraulic pressure and flow where you command it to go for fast light- to medium- load cycle times.



# SIMPLE TO OPERATE

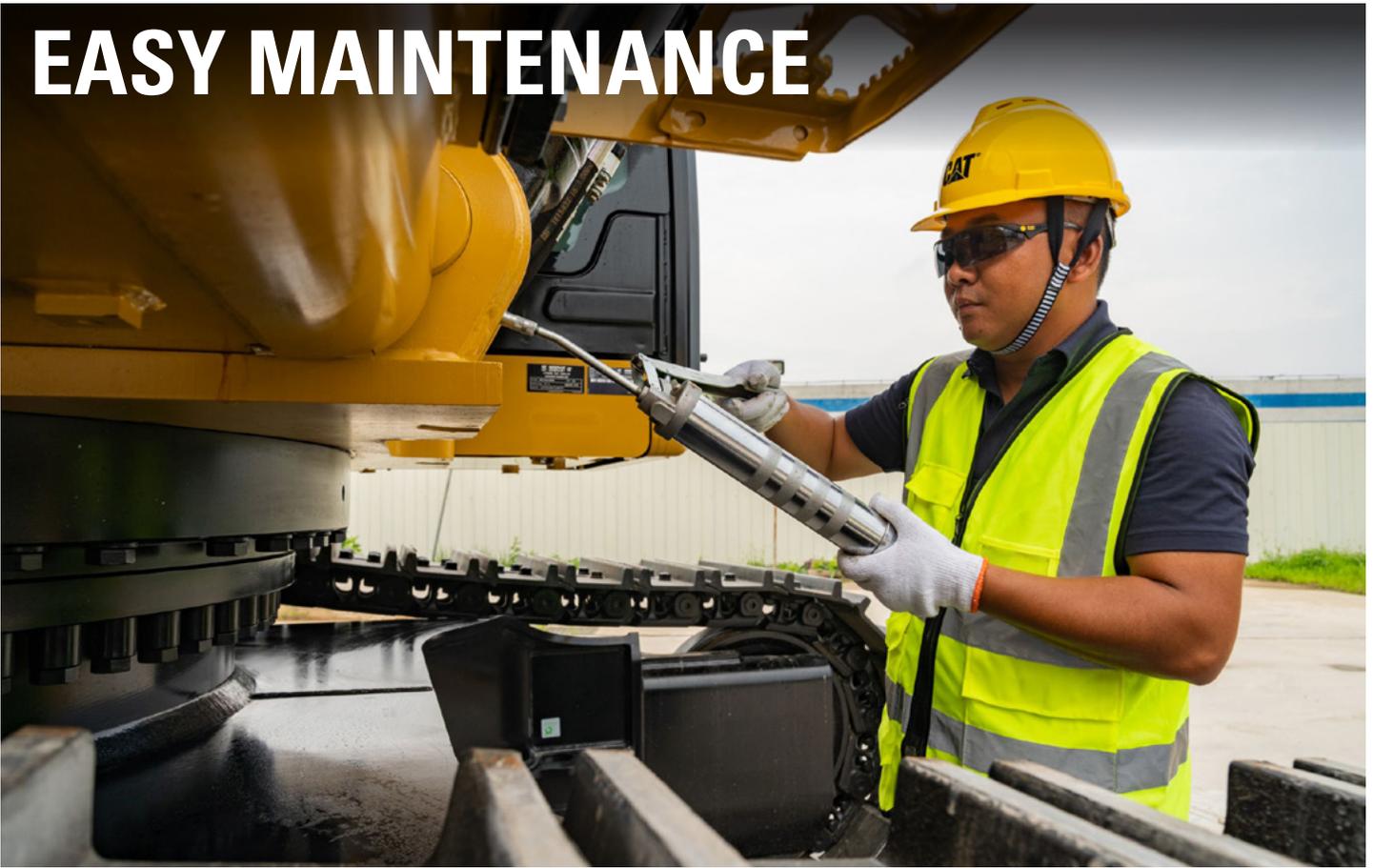


- Start the engine with a push button; use a Bluetooth key fob or Operator ID passcode.
- Program each joystick button – including power mode, response, and pattern – using Operator ID; the machine will remember what you set each time you go to work.
- Trouble cutting through tough material? Auto dig boost gives you an automatic power increase of 8 percent when you need it for better bucket penetration, shorter cycle times, and greater payloads.
- Need more lift during your shift? Auto heavy lift gives you 8 percent more power exactly when you need it for as long as you need it.
- Make moving the excavator much easier with optional Cat Stick Steer. Simply push a button and use one hand to travel and turn instead of both hands or feet on levers and pedals.
- Cat continues to improve user interface functionality for operators of all skill levels. The touchscreen monitor is an easy-to-use operating tool that presents the jobsite dashboard with an intuitive format. Productivity applications are displayed in grid-view to read on-the-go, and touchscreen navigation is programmed to make sure job performance continues without any hold ups.
- Protect your hammer from overworking. Auto hammer stop warns you after 15 seconds of continuous firing and then automatically shuts it off after 30 seconds – all to prevent wear and tear on the attachment and excavator.
- Make operating easier with the touch of a joystick button. Additional auxiliary relays allow you to power on or turn off a CB radio, beacon light, and even a dust suppression watering system without taking your hands off the joysticks.
- Not sure how a function works or how to maintain the excavator? Always have the operator's manual at your fingertips in the touchscreen monitor.

- Enhance jobsite safety by adding Cat Command to your fleet. The remote control system comes with everything you need like WIFI radio, cameras, and microphone so you can work outside of the cab and avoid potential hazards.
- Cat Detect – People Detection helps protect the most valuable asset on any jobsite – people. The system uses smart cameras with depth sensors to provide the operator with visual and auditory alerts so he or she can take immediate action when a person is too close to the excavator.
- Keep your excavator secure with Operator ID. Use your PIN code on the monitor to enable the push button starting feature.
- A travel direction indicator helps operators know which way to activate the travel levers.
- A ground-level shutoff switch stops all fuel to the engine when activated and shuts down the machine.
- Enjoy great visibility into the trench, in each swing direction, and behind you with the help of smaller cab posts and larger windows.
- Make service work easier and safer with inspection lighting. With the flip of a switch, lights will illuminate the engine, pump, battery, and radiator compartments to enhance visibility.
- Serrated steps and anti-skid punch plate on the service platform help prevent slipping.
- Add an optional swing alarm to safeguard surroundings and assets. This feature sends out warnings to the operator for any unexpected swings to enhance safety, minimizing downtime and increasing productivity.
- A rearview camera is standard.
- The Rollover Protective Structure (ROPS) cab meets industry standards and protects the operator in the event of a rollover.



# EASY MAINTENANCE



- Boost productivity with proactive service reminders. The Integrated Vehicle Health Management System alerts the operator with step-by-step service guidance along with parts needed so you don't experience any unnecessary downtime.
- Expect less maintenance cost due to extended and synchronized service intervals.
- Check hydraulic system oil and easily drain fuel system water from ground level.
- Track your excavator's filter life and maintenance intervals via the in-cab monitor.
- Oil and fuel filters are grouped and located on right-hand side of machine for easy maintenance.
- The air intake filter with pre-cleaner has high dust holding capacity.
- Keep your excavator secure with Operator ID. Use your PIN code on the monitor to enable the push button starting feature.
- The hydraulic oil filter provides improved filtration performance, anti-drain valves to keep oil clean when the filter is replaced, and longer life with a 3,000 hour replacement interval – 50 percent longer than previous filter designs.
- Scheduled Oil Sampling (S-O-S<sup>SM</sup>) ports are on ground level, simplifying maintenance and allowing for quick, easy extraction of fluid samples for analysis.

- The Cat C7.1 TTA engine meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.
  - Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels\*\* up to: 20% biodiesel FAME (fatty acid methyl ester)\* or 100% renewable diesel, HVO (hydrogenated vegetable oil) and GTL (gas-to-liquid) fuels. Refer to guidelines for successful application. Please consult your Cat dealer or “Caterpillar Machine Fluids Recommendations” (SEBU6250) for details.
  - Cat Grade technologies combine advanced guidance with optional automated machine control helping you reach grading targets while reducing fuel burn and greenhouse gas emissions by improving efficiency, jobsite productivity, and accuracy.
  - Auto engine speed control reduces unnecessary fuel burn and greenhouse gas emissions by allowing the engine to automatically go into idle mode when the machine is not working.
  - Cat® Payload for excavators provides on-the-go material weighing, which helps reduce fuel burn by improving loading efficiency, jobsite productivity, and eliminating trips to the scale.
  - Cat® 2D E-fence keeps the front linkage within a predefined work area to avoid hazards such as traffic – not only helping keep personnel safe but also helps you avoid repairs, downtime, and costly jobsite fines.
  - Extended maintenance intervals not only reduce downtime but decrease the amount of fluid and filters that are replaced over the life of the machine.
  - Cat VisionLink displays the CO<sub>2</sub> emissions for monitored assets, calculated by fuel type for the runtime fuel burned each day in a selected date range.
- \*Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).***
- \*\*Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.***



# INCREASE YOUR PRODUCTIVITY AND PROFIT WITH CAT ATTACHMENTS

You can easily expand the performance of your excavator by utilizing any Cat attachment. Each Cat tool is designed to fit the weight and horsepower of the excavator for improved performance, safety, and stability.

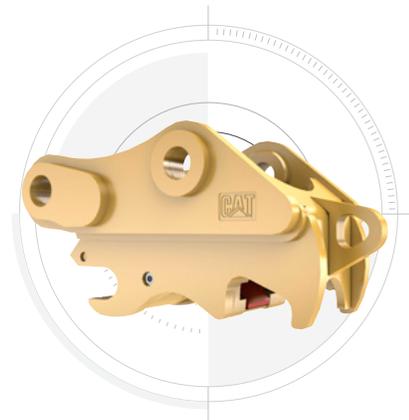
## BUCKETS



### MAKE EVERY PASS COUNT

Did you know that most fuel is burned during digging? The right Cat bucket tailored to your specific application can deliver up to 15% more efficiency with better penetration and loading.

## COUPLERS



### CHANGE TOOLS QUICKLY

Cat quick couplers let you change between tools in minutes, making the machine more versatile for greater money-making opportunities.

## HYDRAULIC HAMMERS



### BREAK BIG ROCKS FAST

The 350 can handle hammers up to 200 mm (7.87 in) in size, which will help you make quick work of big rocks.

### AUTO HAMMER STOP PREVENTS WEAR

Protect your hammer tool from overheating and rapid wear. Auto hammer stop warns you after 15 seconds of continuous firing and then automatically shuts it off after 30 seconds – all to extend the tool's service life.

# TECHNICAL SPECIFICATIONS

## Engine

Net Power – ISO 9249	308 kW	413 hp
Net Power – ISO 9249 (DIN)	419 hp (metric)	
Engine Model	C9.3 B	
Engine Power – ISO 14396	309 kW	414 hp
Engine Power – ISO 14396 (DIN)	420 hp (metric)	
Bore	115 mm	5 in
Stroke	149 mm	6 in
Displacement	9.3 L	568 in <sup>3</sup>
Biodiesel Capability	Up to B20 <sup>1</sup>	
Emissions	Meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.	

Net power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system, and alternator with engine speed at 1,800 rpm. Advertised power is tested per the specified standard in effect at the time of manufacture.

<sup>1</sup>Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels\*\* up to: 20% biodiesel FAME (fatty acid methyl ester)\* or 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels. Refer to guidelines for successful application. Please consult your Cat dealer or “Caterpillar Machine Fluids Recommendations” (SEBU6250) for details.

\*Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).

\*\*Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

## Hydraulic System

Main System – Maximum Flow	779 L/min	206 gal/min
Maximum Pressure – Equipment	35 000 kPa	5,076 psi
Maximum Pressure – Equipment – Lift Mode	38 000 kPa	5,511 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	25 700 kPa	3,727 psi

## Swing Mechanism

Swing Speed	7.94 r/min	
Maximum Swing Torque	189 kN-m	139,275 ft-lbf

## Weights

Operating Weight	46 000 kg	105,100 lb
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## Service Refill Capacities

Fuel Tank Capacity	680 L	179.6 gal
Cooling System	48 L	12.7 gal
Engine Oil	32 L	8.5 gal
Swing Drive	15 L	4 gal
Final Drive – Each	11 L	2.9 gal
Hydraulic System – Including Tank	550 L	145.3 gal
Hydraulic Tank	217 L	57.3 gal
Diesel Exhaust Fluid (DEF) Tank	80 L	21.1 gal

## Dimensions

Boom	Reach 6.9 m (22'8")	
Stick	Reach 3.9 m (12'10")	
Bucket	GDC 3.08 m <sup>3</sup> (4.03 yd <sup>3</sup> )	
Shipping Height – Top of Cab	3260 mm	10.8 ft
Handrail Height	3400 mm	11.2 ft
Shipping Length	11 950 mm	39.2 ft
Tail Swing Radius	3760 mm	12.4 ft
Counterweight Clearance	1340 mm	4.5 ft
Ground Clearance	520 mm	1.8 ft
Track Length	5400 mm	17.9 ft
Track Length to Center of Rollers	4360 mm	14.4 ft
Track Gauge	2740 mm	9 ft
Transport Width – 600 mm (24") Shoes	3340 mm	10.11 ft

## Working Ranges & Forces

Boom	Reach 6.9 m (22'8")	
Stick	Reach 3.9 m (12'10")	
Bucket	GDC 3.08 m <sup>3</sup> (4.03 yd <sup>3</sup> )	
Maximum Digging Depth	8210 mm	26.11 ft
Maximum Reach at Ground Level	12 150 mm	39.8 ft
Maximum Cutting Height	10 690 mm	35.1 ft
Maximum Loading Height	7390 mm	24.3 ft
Minimum Loading Height	2190 mm	7.2 ft
Maximum Depth Cut for 2440 mm (8 ft) Level Bottom	8080 mm	26.6 ft
Maximum Vertical Wall Digging Depth	5840 mm	19.2 ft
Bucket Digging Force – ISO	268 kN	60,160 lbf
Stick Digging Force – ISO	183 kN	41,090 lbf

## Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.00 kg of refrigerant, which has a CO<sub>2</sub> equivalent of 1.430 metric tonnes.

# STANDARD & OPTIONAL EQUIPMENT

NOTE: Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
<b>UNDERCARRIAGE AND STRUCTURES</b>		
Towing eye on base frame	✓	
9 mt (19,842 lb) counterweight	✓	
600 mm (24") double grouser, Heavy Duty (HD) double grouser track shoes		✓
750 mm (30") triple grouser track shoes		✓
900 mm (35") triple grouser track shoes		✓
<b>BOOMS AND STICKS</b>		
6.55 m (21'6) Mass boom		✓
6.9 m (22'8") Reach boom		✓
2.5 m (8'2") Mass stick		✓
2.9 m (9'6") Reach stick		✓
3.0 m (9'10") Mass stick		✓
3.35 m (11') Reach stick		✓
3.9 m (12'10") Reach stick		✓
<b>PREMIUM CAB</b>		
High-resolution 254 mm (10") LCD touchscreen monitor	✓	
Auto bi-level air conditioner	✓	
Jog dial and shortcut keys for monitor control	✓	
Keyless push-to-start engine control	✓	
Height-adjustable console	✓	
Tilt-up left-side console	✓	
Heated and ventilated air-suspension seat	✓	
Monitor integrated Bluetooth radio with USB/Auxiliary ports	✓	
12V DC outlets	✓	
Document storage	✓	
Overhead storage and rear storage with nets	✓	
Beverage holder	✓	
Openable two-piece front window	✓	
Rear window emergency exit	✓	
Parallel wiper	✓	
Openable polycarbonate skylight hatch	✓	
LED dome light	✓	
Floor welcome light	✓	
Roof sunscreen	✓	
Roller front sunscreen	✓	
Washable floor mat	✓	
Beacon ready	✓	
One-piece front windshield		✓
Cat Stick Steer		✓
Auxiliary relay		✓

	Standard	Optional
<b>CAT TECHNOLOGY</b>		
VisionLink	✓	
Remote Flash	✓	
Remote Troubleshoot	✓	
Compatibility with radios and base stations from Trimble, Topcon, and Leica	✓	
Capability to install 3D grade systems from Trimble, Topcon, and Leica	✓	
Cat Grade 2D	✓	
Cat Assist	✓	
Cat Payload	✓	
Work tool recognition (PL161)	✓	
Work tool tracking (PL161)	✓	
Cat Grade Connectivity		✓
Cat Grade 2D with Attachment Ready Option (ARO)		✓
Cat Grade 3D single GNSS		✓
Cat Grade 3D dual GNSS		✓
Laser catcher		✓
Cat Tilt Rotator (TRS) Integration		✓
Operator Coaching		✓
VisionLink Productivity		✓
<b>ENGINE</b>		
Three selectable modes: Power, Smart, Eco	✓	
Auto engine speed control	✓	
52° C (126° F) high-ambient cooling capacity	✓	
Hydraulic reverse fan (optional in Europe)	✓	
-18° C (0° F) cold start capability	✓	
Double element air filter with integrated pre-cleaner	✓	
Cold start block heaters		✓
-32° C (-25° F) cold start capability		✓
<b>ELECTRICAL SYSTEM</b>		
Maintenance-free 1,000 CCA batteries (×2)	✓	
Centralized electrical disconnect switch	✓	
LED exterior chassis and boom lights	✓	

(continued on next page)

# STANDARD & OPTIONAL EQUIPMENT

NOTE: Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
<b>SERVICE AND MAINTENANCE</b>		
Integrated vehicle health management system	✓	
Grouped location of engine oil & fuel filters	✓	
S-O-S ports	✓	
Electric refueling pump with auto shutoff		✓
<b>DELUXE CAB</b>		
High-resolution 203 mm (8") LCD touchscreen monitor	✓	
Auto bi-level air conditioner	✓	
Jog dial and shortcut keys for monitor control	✓	
Keyless push-to-start engine control	✓	
Height-adjustable console	✓	
Tilt-up left-side console	✓	
Heated air-suspension seat	✓	
Monitor integrated Bluetooth radio with USB/Auxiliary ports	✓	
12V DC outlets	✓	
Document storage	✓	
Overhead storage and rear storage with nets	✓	
Cup holder	✓	
Openable two-piece front window	✓	
Rear window emergency exit	✓	
Radial wiper with washer	✓	
Openable polycarbonate skylight hatch	✓	
LED dome light	✓	
Floor welcome light	✓	
Roof sunscreen	✓	
Roller front sunscreen	✓	
Washable floor mat	✓	
Beacon ready	✓	
High-resolution 254 mm (10") LCD touchscreen monitor		✓
Roller rear sunscreen		✓
Cat Stick Steer		✓
Auxiliary relay		✓

	Standard	Optional
<b>SAFETY AND SECURITY</b>		
E-Fence	✓	
Auto hammer stop	✓	
Caterpillar One Key security system	✓	
Lockable external tool/storage box	✓	
Lockable door, fuel, and hydraulic tank locks	✓	
Lockable fuel drain compartment	✓	
Service platform with anti-skid plate and recessed bolts	✓	
RH handrail and handhold	✓	
Signaling/warning horn	✓	
Ground-level secondary engine shutoff switch	✓	
Rearview camera	✓	
Lockable disconnect switch	✓	
Inspection lighting	✓	
Swing alarm		✓
<b>HYDRAULIC SYSTEM</b>		
Boom and stick regeneration circuit	✓	
Electronic main control valve	✓	
Auto hydraulic oil warmup	✓	
Auto dig boost	✓	
Auto heavy lift	✓	
Auto swing parking brake	✓	
High performance hydraulic return filter	✓	
Two speed travel	✓	
Bio hydraulic oil capability	✓	
Combined two-way auxiliary circuit		✓
Hydraulic efficiency monitoring		✓

For more complete information on Cat products, dealer services and industry solutions, visit us on the web at [www.cat.com](http://www.cat.com).

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(N Am, Europe, Aus-NZ,  
Chile, Turkey)

